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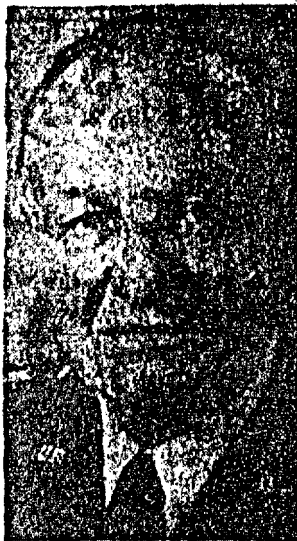
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## Army Research Chief Speaks At Chamber Dinner Tonight

Lt. Gen. Arthur G. Trudeau, chief of Army research and development and a native of Middlebury, will speak Tuesday night at the annual dinner of the Burlington-Lake Champlain Chamber of Commerce.

Trudeau, who spoke Monday night at the 17th Annual Eastern Seaboard Apprenticeship Conference at Manchester, Vt., has chosen as his Burlington topic, "Dynamic Progress Through Research and Development."

Meeting at the Hotel Vermont, the Chamber of Commerce also will honor teachers representing public and parochial schools in Burlington, South Burlington, Winooski, Essex Junction and Shelburne.



Lt. Gen. Trudeau

Speaking at Manchester's Equinox House Monday evening, Trudeau told Americans their future requires "more backbone and less wishbone" and unveiled an impressive battery of space-age weapons to back up his point.

West Pointer Trudeau is reportedly a candidate to replace Allen Dulles as chief of the Central Intelligence Agency.

Trudeau called for a rekindling of the spirit and dynamism of America's forefathers and said although the determination to achieve great things still existed in America, "the fog of fear and the clouds of complacency that obscure the horizon must be swept away by the freshening breeze of an awakened America."

The general saw the 1960s torn by three revolutionary materials and solid state physics. "we can determine the ideal characteristics (of materials) we need, then tailor them out of atoms and molecules as needed."

Miniaturization: Post-war developments by the Army have led to the "2-D" circuit. . . electronic tubes so small 2,000 of them can be packed in a cubic inch. . . and "this is only the beginning."

Industrial crystals: Signal Corps scientists have learned independently how to make industrial diamonds out of carbon. Such synthetic crystals have great potential use in electronics; synthetic diamonds are found to be excellent semi-conductors.

With the aid of movie sequences, Trudeau also showed a number of military hardware items now in production or just coming off the drawing board:

The DOAK aircraft which uses rotatable ducted fans for propulsion; the Piasecki Flying Platform; the GOER logistical carrier which employs a small gas turbine engine and exceeds all other wheeled vehicles in off-road mobility;

Also, a turbo-jet propelled drone aircraft which will either transmit or bring back reconnaissance data without a human pilot; the "Davy Crockett" atom-recoilless rifle, and a variety of missiles which seek out, trail and destroy other missiles.